

**GROUNDWATER ENTRY POINT CHLORINE RESIDUAL DISINFECTANT  
MONITORING LOG**

**You are required to monitor the effectiveness and reliability of the disinfection treatment.  
Completion and retention of this form will assist groundwater systems in complying  
with §13.2(a) - (c) of the *Colorado Primary Drinking Water Regulations*.**

WATER SYSTEM NAME: \_\_\_\_\_ PWSID: CO0 \_\_\_\_\_

ENTRY POINT ID OR DESCRIPTION OF SAMPLING POINT: \_\_\_\_\_

SOURCE(S) REPRESENTED: \_\_\_\_\_

SAMPLING PERIOD (MONTH/YEAR): \_\_\_\_\_ CONTACT PERSON: \_\_\_\_\_

**Residual Disinfectant Concentration Measured as:**

☐Free Chlorine ☐Total Chlorine

**Analytical Method:** \_\_\_\_\_

Week #	Date & Time	Reading (mg/L)	<i>If &lt;0.2 mg/L, take a reading every 24 hrs. until ≥ 0.2 mg/L</i>		Sampler	Comments
1			Date & Time	Reading (mg/L)		
			(24 hrs)			
			(48 hrs)			
			(72 hrs)			If < 0.2 mg/L – Notify CDPHE (303-692-3308), Investigate & Document, Issue Public Notice
2			(24 hrs)			
			(48 hrs)			
			(72 hrs)			If < 0.2 mg/L – Notify CDPHE (303-692-3308), Investigate & Document, Issue Public Notice
3			(24 hrs)			
			(48 hrs)			
			(72 hrs)			If < 0.2 mg/L – Notify CDPHE (303-692-3308), Investigate & Document, Issue Public Notice
4			(24 hrs)			
			(48 hrs)			
			(72 hrs)			If < 0.2 mg/L – Notify CDPHE (303-692-3308), Investigate & Document, Issue Public Notice
5			(24 hrs)			
			(48 hrs)			
			(72 hrs)			If < 0.2 mg/L – Notify CDPHE (303-692-3308), Investigate & Document, Issue Public Notice

***In accordance with 13.5(a)(1), you must retain these records for five (5) years. You do not need to submit this form to CDPHE, but you must make the records available to CDPHE during inspections or upon request.***

## GUIDANCE AND INSTRUCTIONS FOR COMPLIANCE WITH DISINFECTION REQUIREMENTS

### Entry point sampling and recording guidelines:

- Each entry point must be monitored once per week for chlorine residual disinfectant unless that entry point did not serve water to the distribution system.
- In the case where the entry point was not used please record "Plant Off" for that week.
- If a measurement of less than 0.2 mg/L is observed, you must take follow up samples every 24 hours until the entry point residual is measured at or above 0.2 mg/L. These measurements must be recorded and additional space has been provided below to record all of these measurements. Sampling date and time as well as the reading must be recorded.
- **If 72 hours pass without a measurement at or above 0.2 mg/L, you must notify CDPHE as soon as possible but no later than the next business day.** In this instance a treatment technique violation has occurred and Tier 2 Public Notice must be made.

### Analytical Method Guideline:

- Groundwater systems must measure residual disinfectant concentrations as total chlorine, free chlorine or chlorine dioxide using analytical methods specified in Section 10.5.1(a)(2) of the *Colorado Primary Drinking Water Regulations* (see Table 10-15, *Disinfection Residual Analytical Methods*). One analytical methodology listed in Table 10-15 for free chlorine is DPD Colorimetric (Standard Method (SM) 4500-Cl G), which can include chlorine pocket colorimeter test kits (digital or color wheel). The system would need to confirm with the test kit manufacturer that SM 4500-Cl G is employed.

### Additional Follow-Up Disinfectant Concentration Measurements (Follow Up Readings 1 – 3 are recorded on the front page of the log):

Week #	Follow Up Reading #4 (mg/L)	Follow Up Reading #5 (mg/L)	Follow Up Reading #6 (mg/L)	Follow Up Reading #7 (mg/L)	Follow Up Reading #8 (mg/L)	Sampler	Comments
1							
2							
3							
4							
5							

Enter Date & Time

Enter Disinfectant Residual Reading (mg/L)